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GenCore version 5.1.4_p5_4578

OM protein - protein search, using sw model

Run on:

March 10, 2003, 14:38:55 ; Search time 13.4774 Seconds

692.052 Million cell updates/sec (without alignments)

Title: US-08-880-855-39

Perfect score: 1685

Sequence: 1 MRRASRDYTKLRLSEEMGG.....LLDPDQDATYFGAFKVRDID 317

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

```
issued_Patents_AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB_pep:*
2: /cgn2_6/ptodata/1/iaa/5B_COMB_pep:*
3: /cgn2_6/ptodata/1/iaa/6A_COMB_pep:*
4: /cgn2_6/ptodata/1/iaa/6B_COMB_pep:*
5: /cgn2_6/ptodata/1/iaa/PCRS_COMB_pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1_pep:*
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

| SUMMARIES | | | | | |
|------------|-------|--------------|-------|-------------------|-------------------|
| Result No. | Score | Query Length | DB ID | Description | |
| 1 | 1685 | 317 | 3 | Sequence 13, APPI | |
| 2 | 1685 | 317 | 4 | Sequence 13, APPI | |
| 3 | 1685 | 317 | 4 | Sequence 13, APPI | |
| 4 | 1685 | 317 | 4 | Sequence 13, APPI | |
| 5 | 1685 | 100.0 | 317 | 4 | DS-08-577-780-13 |
| | | | | | Sequence 13, APPI |

ALIGNMENTS

Appendix A

RESULT 5
US-09-577-780-13
Sequence 13, Application US/09577780
Patent NO. 6419929
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
Galibert, Laurent
Maraskovsky, Eugene
TITLE OF INVENTION: Ligand for Receptor Activator of NF- κ B
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
. COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/577,780
FILING DATE: 24-May-2000
CLASSIFICATION: <Unknown>
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/395,659
FILING DATE: <Unknown>
APPLICATION NUMBER: US/08/813,509
FILING DATE: 07-MARCH-1997
APPLICATION NUMBER: US/08/772,330
FILING DATE: 23-DECEMBER-1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2052-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 587-0430
TELEFAX: (206) 233-0644
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 317 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-577-780-13
Query Match 100.0%; Score 1685; DB 4; Length 317;
Best Local Similarity 100.0%; Pred. No. 1.4e-163; Mismatches 0; Indels 0;
Matches 317; Conservative 0;

| | | | |
|----|-----|--|-----|
| QY | 1 | MRRASRDYTYKLRSEEMGGPAGPREGHPIHAPPAPPHOPPAASRSMEVVALIGLGQV | 60 |
| Db | 1 | MRRASRDYTYKLRSEEMGGPAGPREGHPIHAPPAPPHOPPAASRSMEVVALIGLGQV | 60 |
| QY | 61 | VCSVALFFYRQMPNRIEDGTHCITYRTRILRHENADQDTILESQDPMKLIQDSCKR | 120 |
| Db | 61 | VCSVALFFYRQMPNRIEDGTHCITYRTRILRHENADQDTILESQDPMKLIQDSCKR | 120 |
| QY | 121 | QAFQAVQKELQHIVGSQHPIRAEKAMDGSMIDLAKRSKLEAQPFHAFTTINATDPSGH | 180 |
| Db | 121 | QAFQAVQKELQHIVGSQHPIRAEKAMDGSMIDLAKRSKLEAQPFHAFTTINATDPSGH | 180 |
| QY | 181 | KVSLSSWHDGRWAKISNTFSKGSKLTVNQDFYIYANICERHRTSGDIAETYQLMV | 240 |
| Db | 181 | KVSLSSWHDGRWAKISNTFSKGSKLTVNQDFYIYANICERHRTSGDIAETYQLMV | 240 |
| QY | 241 | YVTKTSIKPSHHTLMKGGSTKIVWSGNSEPFHYSINVGGFFKURSGEESIEVSNSPLD | 300 |
| Db | 241 | YVTKTSIKPSHHTLMKGGSTKIVWSGNSEPFHYSINVGGFFKURSGEESIEVSNSPLD | 300 |
| QY | 301 | PDQDATYFGAFKVRID 317 | |
| Db | 301 | PDQDATYFGAFKVRID 317 | |

Appendix B

us-08-880-855-37.rai

GenCore version 5.1.4_p5_4578
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OM protein - protein search, using sw model

Run on:

March 10, 2003, 14:38:55 ; search time 13.4349 Seconds

(without alignments)
 692.052 Million cell updates/sec

Title:

US-08-880-855-37

Perfect score:

1675

Sequence:

1 MRASRDYGYKYLRSSEMGSS.....LIDPQDATYFGAFKVQDID 316

Scoring table:

BLOSUM62

GapOp 10.0 , Gapext 0.5

Searched:

262574 seqs, 2942922 residues

Total number of hits satisfying chosen parameters:

262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_AA: *
 1: /cgn2_6/podata/1/iaa/5A_COMB_pep: *
 2: /cgn2_6/podata/1/iaa/5B_COMB_pep: *
 3: /cgn2_6/podata/1/iaa/6A_COMB_pep: *
 4: /cgn2_6/podata/1/iaa/6B_COMB_pep: *
 5: /cgn2_6/podata/1/iaa/PCRSUS_COMB_pep: *
 6: /cgn2_6/podata/1/iaa/backfilesl1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

| SUMMARIES | | | | | | | |
|------------|-------|--------------------|-------|-------------|-------------------|--|--|
| Result No. | Score | Query Match Length | DB ID | Description | | | |
| 1 | 1675 | 100.0 | 316 | 4 | US-08-889-362-2 | | |
| 2 | | | | | Sequence 2, Appli | | |

Appendix B

RESULT 2
 US-08-989-362-2
 Sequence 2, Application US/08989362
 Patient No. 624286

GENERAL INFORMATION:
 APPLICANT: Borman, Daniel M.
 APPLICANT: Mattson, Jeanine D.
 TITLE OF INVENTION: Mammalian Cell Surface Antigens; Related
 TITLE OF INVENTION: Reagents
 NUMBER OF SEQUENCES: 2

CORRESPONDENCE ADDRESS:
 ADDRESSEE: DNA Research Institute
 STREET: 901 California Avenue
 CITY: Palo Alto
 STATE: California
 COUNTRY: USA
 ZIP: 94304-1104

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/989, 362
 FILING DATE: 12-DEC-1997
 CLASSIFICATION: 56

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/032, 846
 FILING DATE: 13-DEC-1995

ATTORNEY/AGENT INFORMATION:
 NAME: Ching, Edwin P.
 REGISTRATION NUMBER: 34, 090
 REFERENCE/DOCKET NUMBER: DX0686

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (650) 852-9195
 TELEFAX: (650) 496-1204

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:
 LENGTH: 316 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-989-362-2

Query Match, 100.0%; Score 1675; DB 4; Length 316;
 Best Local Similarity 100.0%; Pred. No. 4.7e-157; DB 4;
 Matches 316; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRRASRDYGYKLRSSEBEMGGPGVHEGPPLHAPASAPAPPASRSNMLLIGLGQ 60
 QY 1 MRRASRDYGYKLRSSEBEMGGPGVHEGPPLHAPASAPAPPASRSNMLLIGLGQ 60
 Db 61 WVCSTIAFLYFRAQMDPNTSIEDSTCFYRLRLENAGLQDSTLSEDTLPDSCRMHQ 120
 QY 61 WVCSTIAFLYFRAQMDPNTSIEDSTCFYRLRLENAGLQDSTLSEDTLPDSCRMHQ 120
 Db 121 AFGAVQKELQHIVGQRFSCAPAMEGSMDVDAVRGKPEAQPFHLTNASIPSGSHK 180
 QY 121 AFGAVQKELQHIVGQRFSCAPAMEGSMDVDAVRGKPEAQPFHLTNASIPSGSHK 180
 Db 121 AFGAVQKELQHIVGQRFSCAPAMEGSMDVDAVRGKPEAQPFHLTNASIPSGSHK 180

Appendix B

us-08-880-855-37.rai

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Sequence: 1 MRRASRDYGYKYLRSSEEMGS.LIDPDPDATYFGAFKVQDID 316

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Searched: 262574 seqs, 29422922 residues

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262574

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Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_AA:*

- 1: /cgn2_6/prodata/1/1aa/5A_COMB.pep:*
- 2: /cgn2_6/prodata/1/1aa/5B_COMB.pep:*
- 3: /cgn2_6/prodata/1/1aa/6A_COMB.pep:*
- 4: /cgn2_6/prodata/1/1aa/6B_COMB.pep:*
- 5: /cgn2_6/prodata/1/1aa/7075_COMB.pep:*
- 6: /cgn2_6/prodata/1/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

| Result No. | Score | % SUMMARIES | | Description |
|------------|-------|-------------|--------------|---------------------|
| | | Query Match | Length DB ID | |
| 1 | 1675 | 100.0 | 316 | 4 US-08-989-362-2 |
| 2 | | | | Sequence 2. Applied |

